

519.217

17 DEC 2004

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date
15 January 2004 (15.01.2004)

PCT

(10) International Publication Number
WO 2004/006403 A1

(51) International Patent Classification⁷: H02G 15/18 (74) Agents: GOVER, Melanie, G. et al.; Office of Intellectual Property Counsel, P.O. Box 33427, Saint Paul, MN 55133-3427 (US).

(21) International Application Number: PCT/US2003/017769 (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(22) International Filing Date: 5 June 2003 (05.06.2003) (84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(25) Filing Language: English (71) Applicant (for all designated States except US): 3M INNOVATIVE PROPERTIES COMPANY [US/US]; 3M Center, Post Office Box 33427, Saint Paul, MN 55133-3427 (US).

(26) Publication Language: English (72) Inventors; and

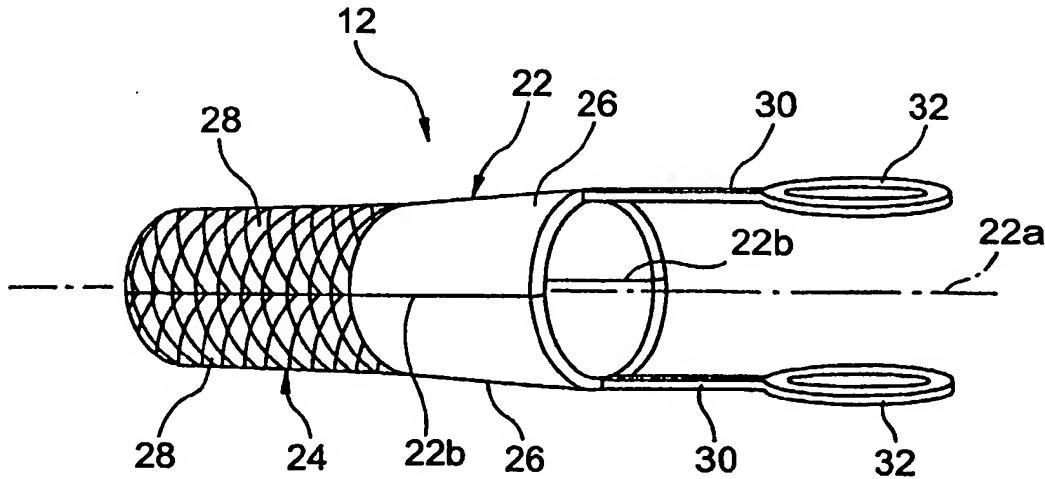
(75) Inventors/Applicants (for US only): SUZUKI, Shigeru [JP/JP]; 179-1-102, Kanamori, Machida, Tokyo 194-0012 (JP). INOUE, Mitsuhiro [JP/JP]; 28-11, Asamizodai 7 chome, Sagamihara, Kanagawa 228-0828 (JP). NAKAMURA, Tsunehisa [JP/JP]; 3036-1-805, Oyama-cho, Machida, Tokyo 194-0212 (JP).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: SLIDINGLY DETACHABLE CORE MEMBER AND COLD SHRINK TUBE UNIT HAVING THE SAME



WO 2004/006403 A1

(57) Abstract: [Problems] To provide a body section with sufficient rigidity without impairment of the sliding facilitating ability of a sliding section of a slidingly detachable core member included in a cold shrink tube unit. [Solving Means] A slidingly detachable core member 12 includes a body section 22 that forms a hollow cylinder, and a sliding section 24 that is integrated with one axial end of the body section 22 and is so flexible as to be turned over to lie on the outer circumferential surface of the body section 22. The body section 22 consists of a plurality of plate-like portions 26 that are assembled to form the hollow cylinder. The sliding section 24 consists of a plurality of porous structural parts 28 that are formed adjacently to the plate-like portions 26 respectively. The core member 12 is incorporated in a seal region of an elastic tube member included in a cold contractile unit with the sliding section thereof turned over to lie on the outer circumferential surface of the body section 22. The core member 12 has pull tabs 30 that are integrated with the body section 22 while being isolated from the sliding section 24.